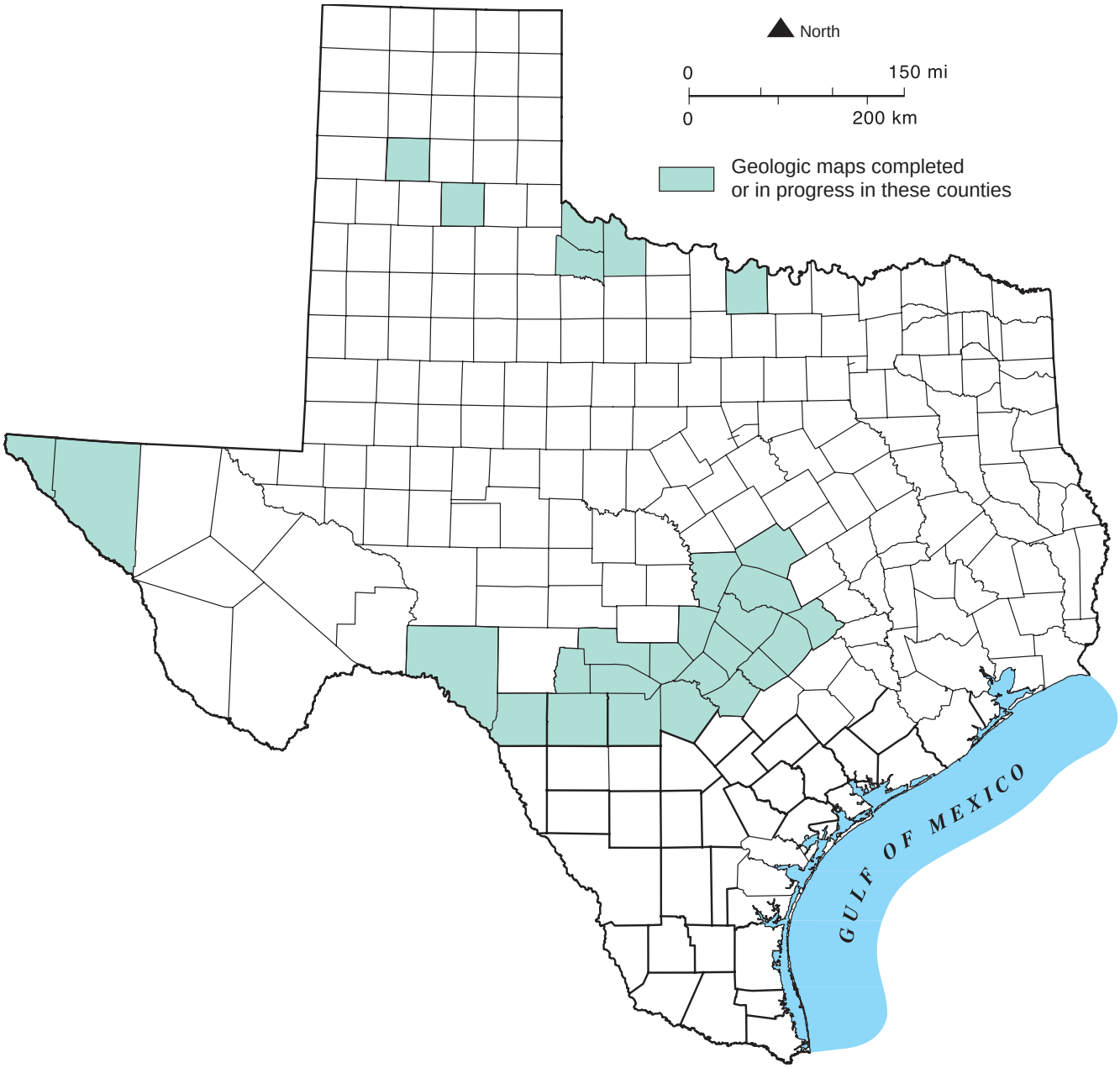
Association of American State Geologists

United States Geological Survey

National Cooperative Geologic Mapping Program

STATEMAP Component: States compete for federal matching funds for geologic mapping

TEXAS



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Summary of STATEMAP Geologic Mapping Program in Texas

Federal Fiscal Year	Project Title	State Dollars	Federal Dollars	Total Project Dollars
1993	El Paso STATEMAP Project	$43,769	$24,821	$68,590
	New Braunfels STATEMAP Project	52,297	31,412	83,709
1994	El Paso STATEMAP Project	52,152	44,164	96,316
	New Braunfels STATEMAP Project	50,287	35,000	85,287
1995	El Paso STATEMAP Project	60,636	51,000	111,636
1996	Digital Geologic Map of New Braunfels	25,910	20,974	46,884
	Geologic mapping of karst aquifer areas, south-central Texas	85,849	79,421	165,270
1997	Geological mapping of critical aquifers	122, 785	96,169	218,954
1998	Geological mapping of critical aquifers	220,714	120,874	341,588
1999	Geologic mapping of urban corridors and critical aquifers	119,915	106,049	225,964
2000	Geologic mapping of urban corridors and critical aquifers	96,278	93,194	189,472
2001	Geologic mapping of urban corridors and critical aquifers	147,088	147,088	294,176
2002*	Geologic mapping of critical aquifers	100,000	100,000	200,000
	TOTALS	**$1,177,680**	**$950,166**	**$2,127,846**

** Project to begin May 2002 therefore matching figures are estimated.*

The Texas STATEMAP program, part of the National Cooperative Geologic Mapping Program (NCGMP), has benefited Texas greatly. Funding provided by this program, with matching money from the State, has enabled the Bureau of Economic Geology (Bureau) to produce new geologic maps of many areas of the State where improved geologic information will impact land and groundwater development and use, groundwater management, and public education. Management and study of water resources, land use planning, identification of sources of aggregate and other earth resources, and recognition of areas prone to foundation problems are a few examples of the many uses of geologic maps. Geologic maps are made available to the public at a scale of 1 inch to 2,000 feet (1:24,000), and are digitized and compiled into regional maps. Mapping priorities are set by the Texas STATEMAP Advisory Panel, whose membership is made up of staff from many State agencies.

Geologic maps have been produced in many areas of the State that are undergoing increased urban development, population growth, and exploitation of natural resources. In far West Texas, the Bureau has mapped the surficial and bedrock geology of a large area of the border region that includes El Paso, the Hueco Bolson, and the valley of the Rio Grande. Geologic maps of Central Texas, a major focus of the program, provide useful information concerning the Edwards and Trinity aquifers, crucial resources to the economy of this part of Texas. Other geologic maps have been produced for special purposes, such as environmental protection and remediation, evaluation of critical aquifers, public education, and improved management plans for State parks.

May 2002